

## Message Text

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PAGE 01 TOKYO 15100 191131Z

15

ACTION MC-02

INFO OCT-01 EA-10 ISO-00 ACDA-10 CIAE-00 DODE-00 PM-03

INR-07 L-02 NSAE-00 NASA-02 NSC-05 RSC-01 OES-05 EB-07

AEC-07 COME-00 AECE-00 /062 W

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TO SECSTATE WASHDC PRIORITY 6135

UNCLAS TOKYO 15100

E.O. 11652:N/A

TAGS: TSPA, OTRA, JA, US, (KURODA, YASUHIRO)

SUBJECT: SPACE COOPERATION - JAPANESE REQUEST FOR EXPORT APPROVAL OF  
ITEMS FOR IMPROVED N-1 ROCKET

REF: TOKYO 15026

1. SCICOUNS HAS RECEIVED LETTER FROM NASDA VICE PRESIDENT  
MATSUURA, TRANSMITTING FURTHER DETAILS ON GOJ REQUEST FOR EXPORT  
APPROVAL FOR ITEMS REQUIRED IN N-ROCKET UPGRADING. NASDA  
REQUESTED THAT EXPLANATION BE TRANSMITTED WASHINGTON PRIOR  
DISCUSSIONS WITH KURODA MENTIONED IN REFTEL. EXPLANATION  
FOLLOWS.

2. QUOTE CURRENT STUDY PERFORMED BY NASDA SHOWS THAT CERTAIN SPECIFIC  
ITEMS NECESSARY TO DEVELOP THE IMPROVE N-1 LAUNCH VEHICLE, AS  
SHOW IN ITEM LIST DATED NOBEMBER 14, 1974, TO ATTAIN  
DESIRED TARGET PAYLOAD CAPABILITY REQUIRED BY SPACECRAFT USERS,  
APPROXIMATELY 350 KG INCLUDING APOGEE KICK MOTOR BURN-OUT WEIGHT.  
ADDITIONAL EXPLANATIONS ARE AS FOLLOWS:

1) SECOND STAGE PROPULSION SYSTEM (MODIFIED AJ10-118F)  
EXPANSION RATIO: 60, APPROX.  
PROPELLANT WEIGHT: 6 TONS, APPROX.  
MAX. TANKAGE DIA.: 1.7 METERS, APPROX.  
LENGTH OF INTERSTAGE: SAME AS THE LENGTH OF DELTA 1914'S  
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PAGE 02 TOKYO 15100 191131Z

WORKS NECESSARY FOR ABOVE MODIFICATIONS ARE TO BE CARRIED OUT IN

USA WITH THE EXPENSES COVERED BY NASDA.

2) DELTA INERTIAL GUIDANCE SYSTEM (DIGS)

THIS IS A NEW HARDWARE ITEM WHICH DOES NOT APPEAR IN LAST PRESENTATION, AND REASON WHY ITEM IS ADDED NOW IS THAT ADOPTION OF DIGS IS NECESSARY TO ATTAIN DESIRED TARGET PAYLOAD CAPABILITY, IN ADDITION TO MODIFIED SECOND STAGE PROPULSION SYSTEM.

3) EXAMPLES OF RELEVANT GROUND SUPPORT EQUIPMENTS SHOWN IN "NOTE" OF ABOVE MENTIONED ITEM LIST ARE:

VEHICLE INTEGRATION CHECKOUT EQUIPMENT FOR DIGS, LAUNCH CHECKOUT EQUIPMENT FOR DIGS, ETC.  
AS SUCH, WE WOULD LIKE TO ASK YOUR THOUGHTFUL CONSIDERATION OF FURNISHING JAPAN WITH MODIFIED SECOND STAGE PROPULSION SYSTEM AND DIGS, IN ADDITION TO ELT, UBT AND 96" FAIRING/INTERSTAGE PREVIOUSLY REQUESTED LAST APRIL WHEN JAPANESE GOVERNMENT SPACE MISSION, HEADED BY DR. AMISHIMA, VISITED WASHINGTON. UNQUOTE.

3. IN COMMENTING ON ABOVE, NASDA OFFICIAL PROVIDED FOLLOWING ADDITIONAL INFORMATION.

A) MODIFICATIONS TO AJ10-118F ENGINE INVOLVE LENGTHENING OF NOZZLE SKIRT AND INCREASING DIAMETER OF TANKAGE. EFFECT OF MODIFICATIONS IS TO INCREASE SPECIFIC IMPULSE FROM 306 TO 311 SEC, CORRESPONDING TO A PAYLOAD INCREASE OF ABOUT 14 KG.

B) CONTRIBUTION OF DIGS TO PAYLOAD INCREASE DERIVES FROM WEIGHT-SAVING, SINCE DIGS IS 6-7 KG LIGHTER THAN CURRENT RADIO INERTIAL GUIDANCE SYSTEM.  
HODGSON

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